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(71) Applicant(s):
Jeffrey Slee
9 Pen-y-Garn, Pentrechwyth, SWANSEA,
SA1 7EP, United Kingdom

Anthony Charles Rendell
9 Pen-y-Garn, Pentrechwyth, SWANSEA,
SA1 7EP, United Kingdom

(72) Inventor(s):
Jeffrey Slee
Anthony Charles Rendell

(74) Agent and/or Address for Service:
Jeffrey Slee
9 Pen-y-Garn, Pentrechwyth, SWANSEA,
SA1 7EP, United Kingdom

(51) INT CL⁷:
B65F 1/14 // B30B 1/04 , B65F 1/16

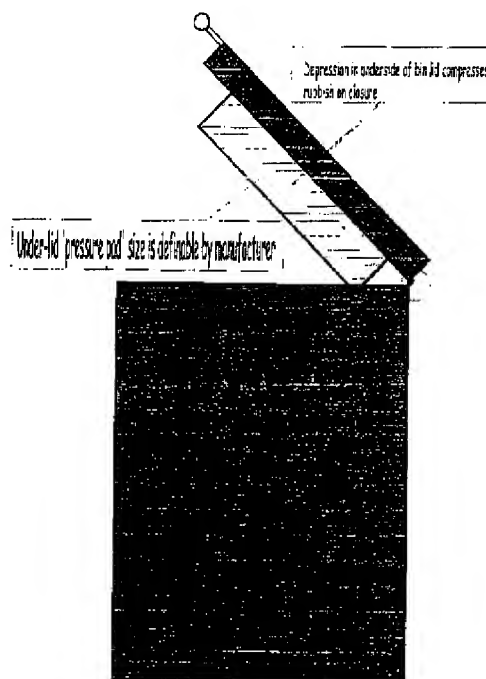
(52) UK CL (Edition X):
A4A AE AEX1A AE7

(56) Documents Cited:
GB 1593808 A WO 1997/043196 A1
FR 002409931 A1 JP 2002114306 A
US 5440978 A US 4286515 A

(58) Field of Search:
UK CL (Edition W) A4A
INT CL⁷ B30B, B65F
Other:

(54) Abstract Title: A refuse bin with a compacting lid

(57) A refuse bin lid that will compact refuse. The underside of the lid has a protrusion that will force the contents of the bin to be pushed further into the bin when the lid of the bin is closed.



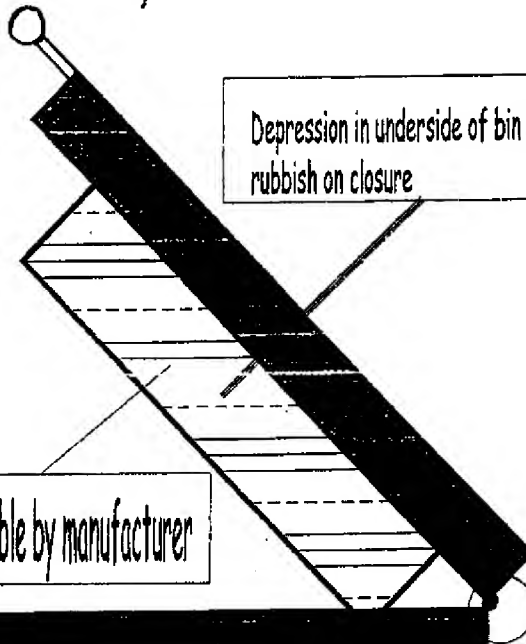
The claims were filed later than the filing date but within the period prescribed by Rule 25(1) of the Patents Rules 1995.

At least one of these pages has been prepared from an original which was unsuitable for direct photoreproduction.

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Depression in underside of bin lid compresses rubbish on closure

Under-lid 'pressure pad' size is definable by manufacturer



1.

DescriptionSelf-compressing Dustbin

The bin will utilise a standard base/container, but the lid will have the addition of a moulded depression in the under surface of the lid. It is this part of the bin that is the subject of this application.

When the lid with the depression is closed and the level of rubbish/refuse is near the top of the bin, the depression will force the bin contents to be compacted further into the bin, providing more space for further refuse. This cycle can be repeated until the bin is satisfactorily full. The size of the depression in the lid will be determined by the overall size of the 'wheelie' bin or bins, and will have a ratio of 20% - any more would probably cause closure of the lid to be too difficult for a female to operate, although the actual ratio will be decided by the manufacturer.

2.
Claim.

1. This compression device enables the user to compact the bin contents without the need to touch said refuse.
2. The additional costs incurred during manufacture are minimal, as there is only one piece to make.
3. The bin lid is strengthened by the additional integral compression device.
4. The design is such that there are no moving parts, again aiding simplicity of manufacture.



Application No: GB0324329.2

Examiner: Sally Vaughan

Claims searched: 1 - 4

Date of search: 15 September 2004

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X	1 - 4	WO 97/43196 A1 (PIERCE) see whole document eg. Figs 1 - 22, page 1 line 22 - page 2 line 16 and page 4 line 24 - page 5 line 2
X	1 - 4	GB 1593808 A (APURA) see whole document eg. Fig 12a & 12b and page 1 line 76 - page 2 line 13
X	1 - 4	US 4286515 A (BAUMANN) see whole document eg. Figs 9, 10 & 11, col 1 lines 58 - 66 and col 5 lines 18 - 34
X	1 - 4	US 5440978 A (O'BRIEN) see whole document eg. all drawings and col 2 lines 49 - 68
X	1 - 4	FR 2409931 A1 (STEINER), WPI Abstract Accession No. 1979/F0321B-23 and all drawings
X	1 - 4	JP 2002114306 A (KOYANAGI), WPI Abstract Accession No. 2002/432686-46 and all drawings

Categories:

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^W :

A4A

Worldwide search of patent documents classified in the following areas of the IPC⁰⁷

B30B; B65F

The following online and other databases have been used in the preparation of this search report

Online: WPI, EPODOC, JAPIO